

Case 14. Incoming Association of Class

To get Incoming Associations of a Class

1. Right-click a Class element and open the **Specification window > Traceability > Create**.
2. Set the **Name** to 'Incoming associations'.
3. Click **Create operation > Filter**.

If you cannot see the **Filter** operation under **Operations**, make sure the **Expert** mode is enabled.

4. Select **Input > Metachain Navigation**.
5. Click **Insert**.
6. Under **Metaclass or Stereotype**, select **Class**, and under **Property**, select **_associationOfEndType**.

Expression

- Expression
 - Filter
 - Input = Metachain Navigation
 - Predicate = null
 - Create operation...

Filter::Input Edit Use as... Reset

Operation Name: Metachain Navigation

Metaclass or Stereotype	Property
Class	_associationOfEndType

Insert Remove

7. Select **Predicate > Operation from Model > Equals**.

Expression

- Expression
 - Filter
 - Input = Metachair
 - Predicate = null
 - Create operation...

Filter::Predicate

Operations

- Type Test
- Property Test
- Operation from Model
- Script
- Nested Operation

8. Select **A > Metachain Navigation**.

Expression

- Expression
 - Filter1
 - Input = Metachain Navigat
 - Predicate = Nested Opera
 - Body = Equals1
 - A = null
 - B = null
 - arg
 - Create parameter...
 - Create operation...

Operation from Model::A

Operations

- Simple Navigation
- Metachain Navigation

9. Click **Insert**.

10. Under **Metaclass or Stereotype**, select **Property**, and under **Property**, select **Type**.

Operation from Model::A

Operation Name: Metachain Navigation1

Metaclass or Stereotype	Property
Property	Type

11. Select **Context** > **Reset**.

Metachain Navigation::Context

Value: arg

12. Select **Context** > **Filter**.

Metachain Navigation::Context

Operations

Simple Navigation Metachain Navigation Find Filter

13. Select **Input** > **Simple Navigation**. Select **Member End** and set **Is Applied** to **true**, and **Direction** to **Source To Target**.

Filter::Input

Relation Criterion	Is Applied	Direction	Properties	Result Ty...
UML Properties				
Member End	<input checked="" type="checkbox"/>	Source To Target		

If you cannot see the **Member End** property, make sure the 'Show relations criteria available only for context' check box is not selected.

14. Select **Predicate** > **Nested Operation**.

Filter::Predicate

Operations

Type Test Property Test Operation from Model Script Nested Operation

15. Select **Body > Simple Navigation**. Select **isNavigable() (Port)** and set **Is Applied** to true, and **Direction** to **Source To Target**.

The screenshot shows the configuration of a 'Body' property. The left pane displays a tree view of the model structure, with 'Body = Simple Navigation' selected. The right pane shows a table of 'UML Operations' with the following data:

Relation Criterion	Is Applied	Direction	Properties	Result T...
isNavigable() (Port)	<input checked="" type="checkbox"/>	Source To Target		
isNavigable() (Prop...)	<input type="checkbox"/>			
isNavigable() (Exte...)	<input type="checkbox"/>			

16. Select **B > Contextual Variable**. Set the **Value** to **THIS**.

The screenshot shows the configuration of a 'Contextual Variable' property. The left pane displays a tree view of the model structure, with 'B = THIS' selected. The right pane shows the 'Operation from Mo...' dialog with the following data:

Operation Name: Contextual Variable1

Value: THIS

17. Click **OK**.

Sample model

The model used in these examples is the *Case Studies for Querying the Model* sample model. To open this model, you need to download [case studies for querying the model.mdzip](#).